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A.D. 1763 . . . . . N° 800.

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S P E C I F I C A T I O N

OF

GEORGE YATES.

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APPARATUS FOR CURING SMOKY CHIMNEYS.

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LONDON:

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A.D. 1763 . . . . . N° 800.

## Apparatus for Curing Smoky Chimneys.

### YATES' SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, GEORGE YATES, of the Parish of Saint George the Martyr, in the County of Middlesex, Esquire, send greeting.

WHEREAS His present Majesty, by His Royal Letters Patent, bearing date  
5 on or about the Tenth day of November last, in the fourth year of His reign,  
was graciously pleased to grant unto me, my executors, admors, and assigns,  
the sole making, vending, and placing up "A CERTAIN MACHINE OR MACHINES  
(BY ME INVENTED, FOR EFFECTUALLY PREVENTING CHIMNEYS SMOAKING, PRESERVING  
THE SAME FROM TAKING FIRE, AND DIMINISHING THE CONSUMPTION OF COALS WITHOUT  
10 LESSENING THE HEAT,)" within that part of His Majesty's Kingdom of Great  
Britain called England, Dominion of Wales, and Town of Berwick-upon-  
Tweed, for the term of fourteen years, according to the Statute in that case  
made and provided.

NOW KNOW YE, that I, the said George Yates, in compliance with and  
15 performance of a proviso or condition in such Letters Patent contained, do  
hereby describe and ascertain the nature of my said Invention, in manner  
following (that is to say):—

Place a gothic arch of about thirty inches height on a stove, leave the point  
or summit of the said arch open, upon such opening place a cylinder of about



*Yates' Machine for Curing Smoky Chimneys.*

nine inches diameter and about twelve inches height for the smoak to pass through, spread a plate horizontally over the whole cavity of the chimney, and into the center thereof introduce the upper end of said cylinder; let one part of said plate turn upon hinges, so as to be let down occasionally and remove the soot which shall from time to time fall thereon; this in most cases will effectually cure the smoaking, and in all cases increase the warmth of the room with a less quantity of coals. When the above machine does not effect the purpose intended, place the following machine upon the top of the chimney (that is to say):—Place the bass of a cone of about twelve inches upon the top of the chimney, so as to comprehend the whole cavity thereof; let the point of that cone (which should be of about six inches diameter) be introduced into the lower end of a cylinder of about ten inches in length and about the diameter of the bass of said cone; upon the upper end of said cylinder place the bass of another cone of about eight inches height and the diameter of the former, out of the point of which it is intended the smoak should pass; but as high winds may sometimes prevent the same, in such case introduce the points of two or more small cones or tunnels into the lower end of said cylinder, so that the mouths or basses of such cones or tunnels present themselves downwards, out of which the said smoak will pass when by winds prevented evacuating itself at the point of the upper cone; but if this should not entirely answer the end proposed, instead of introducing the above-mentioned small cones or tunnels in the lower end of said cylinder, place them horizontally in the sides of such cylinder, and from the points of such small cones or tunnels continue air pipes of about three or four inches diameter half way down the cavity of the chimney, returning the ends thereof upwards about three inches; or otherwise place such small cones or tunnels with the air pipes affixed thereto upon the outside of the chimney, introducing the ends of such pipes into the chimney about half way down the same; this will infallibly give a draught to the chimney and prevent its smoaking for the future. And I, the said George Yates, do hereby averr, that the above is a true, full, and perfect description of the nature of my said Invention.

In witness whereof, I have hereunto set my hand and seal, this Fifth day of March 1764.

GEO. YATES. (L.S.)

Signed and sealed (being first duly stampd),  
in the presence of,

ROBERT WRIGHT.

ANGUS GREENLANT.

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*Yates' Machine for Curing Smoky Chimneys.*

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AND BE IT REMEMBRED, that on the same Fifth day of March, in the year last mentioned, the aforesaid George Yates came before our said Lord the King in His Chancery, and acknowledged the Specification aforesaid, and all and every thing therein contained & specified, in form above  
5 written. And also the Specification aforesaid was stampd according to the tenor of the Statute made in the sixth year of the reign of the late King and Queen William and Mary of England, and so forth.

Inrolled the aforesaid Fifth day of March, in the year above mentioned.

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Printers to the Queen's most Excellent Majesty. 1856.

